members, each containing three Ig-like domains that share significant amino acid identity, now termed IgLON. Struyk et al., supra; Pimenta et al., Gene 170(2): 189-95 (1996).

Additional members of the IgLON subfamily include opiate binding cell adhesion molecule (OBCAM), Schofield et al., EMBO J. 8: 489-495 (1989); limbic associated membrane protein (LAMP), Pimenta et al., supra; CEPU-1; GP55, Wilson et al., J. Cell Sci. 109: 3129-3138 (1996); Eur. J. Neurosci. 9(2): 334-41 (1997); and AvGp50, Hancox et al., Brain Res. Mol. Brain Res. 44(2): 273-85 (1997).

While the expression of neurotrimin appears to be widespread, it does appear to correlated with the development of several neural circuits. For example, between E18 and P10, neurotimin mRNA expression within the forebrain is maintained at high levels in neurons of the developing thalamus, cortical subplate, and cortex, particularly laminae V and VI (with less intense expression in II, II, and IV, and minimal expression in lamina I). Cortical subplate neurons may provide an early, temporary scaffold for the ingrowing thalamic afferents en route to their final synaptic targets in the cortex. Allendoerfer and Shatz, Annu. Rev. Neurosci. 17: 185-218 (1994). Conversely, subplate neurons have been suggested to be required for cortical neurons from layer V to select VI to grow into the thalamus, and neurons from layer V to select their targets in the colliculus, pons, and spinal cord (McConnell et al., J. Neurosci. 14: 1892-1907 (1994). The high level expression of neurotrimin in many of these projections suggests that it could be involved in their development.

In the hindbrain, high levels of neurotrimin message expression were observed within the pontine nucleus and by the internal granule cells and Purkinje cells of the cerebellum. The pontine nucleus received afferent input from a variety of sources including corticopontine fibers of layer V, and is a major source of afferent input, via mossy fibers, to the granule cells which, in turn, are a major source of afferent input via parallel fibers to Purkinje cells. [Palay and Chan-Palay, The cerebellar cortex: cytology and organization. New York: Springer (1974]. High level expression of neurotrimin these neurons again suggests potential involvement in the establishment of these circuits.

Neurotrimin also exhibits a graded expression pattern in the early postnatal striatum. Increased neurotrimin expression is found overlying the dorsolateral striatum of the rat, while lesser hybridization intensity is seen overlying the ventromedial striatum. Struyk et al., supra. This region of higher neurotrimin hybridization intensity does not correspond to a cytoarchitecturally differentiable region, rather it corresponds to the primary area of afferent input from layer VI of the contralateral sensorimotor cortex (Gerfen, Nature 311: 461-464 (1984); Donoghue and Herkenham, Brain Res. 365: 397-403 (1986)). The ventromedial striatum, by contrast, receives the majority of its afferent input from the perirhinal and association cortex. It is noteworthy that a complementary graded pattern of LAMP expression, has been observed within the striatium, with highest expression in ventromedial regions, and lowest expression dorsolaterally. Levitt, Science 223: 299-301 (1985); Chesselet et al., Neuroscience 40: 725-733 (1991).

87. PRO403

Type II transmembrane proteins, also known as single pass transmembrane proteins have an N-terminal portion lodged in the cytoplasm while the C-terminal portion is exposed to the extracellular domain.

Endothelin is a family of vasoconstrictor peptides about which much activity has been focused to better understand its basic pharmacological, biochemical and molecular biological features, including the presence and

structure of isopeptides and their genes (endothelin-1, -2 and û3), regulation of gene expression, intracellular processing, specific endothelin converting enzymes (ECE), receptor subtypes (ET-A and ET-B), intracellular signal transduction following receptor activation, etc.

The endothelin (ET) family of peptides have potent vascular, cardiac and renal actions which may be of pathophysiological importance in many human disease states. ET-1 is expressed as an inactive 212 amino acid prepropeptide. The prepropeptide is first cleaved at Arg52-Cys53 and Arg92-Ala93 and then the carboxy terminal Lys91 and Arg92 are trimmed from the protein to generate the propeptide big ET-1.

Endothelin is generated from inactive intermediates, the big endothelins, by a unique processing event catalyzed by the zinc metalloprotease, endothelin converting enzyme (ECE). ECE was recently cloned, and its structure was shown to be a single pass transmembrane protein with a short intracellular N-terminal and a long extracellular C-terminal that contains the catalytic domain and numerous N-glycosylation sites. ECEs cleave the endothelin propeptide between Trp73 and Val74 producing the active peptide, ET, which appears to function as a local rather than a circulating hormone (Rubanyi, G.M. & Polokoff, M.A., Pharmachological Reviews 46: 325-415 (1994). Thus ECE activity is a potential site of regulation of endothelin production and a possible target for therapeutic intervention in the endothelin system. By blocking ECE activity, it is possible stop the production of ET-1 by inhibiting the conversion of the relatively inactive precursor, big ET-1, to the physiologically active form.

Endothelins may play roles in the pathophysiology of a number of disease states including: 1) cardiovascular diseases (vasospasm, hypertension, myocardial ischemia; reperfusion injury and acute myochardial infarction, stroke (cerebral ischemia), congestive heart failure, shock, atherosclerosis, vascular thickening); 2) kidney disease (acute and chronic renal failure, glomerulonephritis, cirrhosis); 3) lung disease (bronchial asthma, pulmonary hypertension); 4) gastrointestinal disorders (gastric ulcer, inflammatory bowel diseases); 5) reproductive disorders (premature labor, dysmenorrhea, preeclampsia) and 6) carcinogenesis. Rubanyi & Polokoff, supra.

SUMMARY OF THE INVENTION

1. PRO213

Applicants have identified a cDNA clone that encodes a novel polypeptide, wherein the polypeptide is designated in the present application as "PRO213".

In one embodiment, the invention provides an isolated nucleic acid molecule comprising DNA encoding a PRO213 polypeptide. In one aspect, the isolated nucleic acid comprises DNA encoding the PRO213 polypeptide having amino acid residues 1 to 295 of Figure 2 (SEQ ID NO:2), or is complementary to such encoding nucleic acid sequence, and remains stably bound to it under at least moderate, and optionally, under high stringency conditions.

In another embodiment, the invention provides isolated PRO213 polypeptide. In particular, the invention provides isolated native sequence PRO213 polypeptide, which in one embodiment, includes an amino acid sequence comprising residues 1 to 295 of Figure 2 (SEQ ID NO:2).

2. **PRO274**

Applicants have identified a cDNA clone that encodes a novel polypeptide, wherein the polypeptide is designated in the present application as " PRO274".

In one embodiment, the invention provides an isolated nucleic acid molecule comprising DNA encoding a PRO274 polypeptide. In one aspect, the isolated nucleic acid comprises DNA encoding the PRO274 polypeptide having amino acid residues 1 to 492 of Figure 4 (SEQ ID NO:7), or is complementary to such encoding nucleic acid sequence, and remains stably bound to it under at least moderate, and optionally, under high stringency conditions. The isolated nucleic acid sequence may comprise the cDNA insert of the DNA39987-1184 vector deposited on April 21, 1998 as ATCC 209786 which includes the nucleotide sequence encoding PRO274.

In another embodiment, the invention provides isolated PRO274 polypeptide. In particular, the invention provides isolated native sequence PRO274 polypeptide, which in one embodiment, includes an amino acid sequence comprising residues 1 to 492 of Figure 4 (SEQ ID NO:7). An additional embodiment of the present invention is directed to an isolated extracellular domain of a PRO274 polypeptide. Optionally, the PRO274 polypeptide is obtained or is obtainable by expressing the polypeptide encoded by the cDNA insert of the DNA39987-1184 vector deposited on April 21, 1998 as ATCC 209786.

In another embodiment, the invention provides three expressed sequence tags (EST) comprising the nucleotide sequences of SEQ ID NO:8 (herein designated as DNA17873), SEQ ID NO:9 (herein designated as DNA36157) and SEQ ID NO:10 (herein designated as DNA28929) (see Figure 5-7, respactively).

3. **PRO300**

Applicants have identified a cDNA clone that encodes a novel polypeptide, wherein the polypeptide is designated in the present application as "PRO300".

In one embodiment, the invention provides an isolated nucleic acid molecule comprising DNA encoding a PRO300 polypeptide. In one aspect, the isolated nucleic acid comprises DNA encoding the PRO300 polypeptide having amino acid residues 1 to 457 of Figure 9 (SEQ ID NO:19), or is complementary to such encoding nucleic acid sequence, and remains stably bound to it under at least moderate, and optionally, under high stringency conditions. The isolated nucleic acid sequence may comprise the cDNA insert of the DNA40625-1189 vector deposited on April 21, 1998 as ATCC 209788 which includes the nucleotide sequence encoding PRO300.

In another embodiment, the invention provides isolated PRO300 polypeptide. In particular, the invention provides isolated native sequence PRO300 polypeptide, which in one embodiment, includes an amino acid sequence comprising residues 1 to 457 of Figure 9 (SEQ ID NO:19). An additional embodiment of the present invention is directed to an isolated extracellular domain of a PRO300 polypeptide. Optionally, the PRO300 polypeptide is obtained or is obtainable by expressing the polypeptide encoded by the cDNA insert of the DNA40625-1189 vector deposited on April 21, 1998 as ATCC 209788.

4. **PRO284**

Applicants have identified a cDNA clone that encodes a novel transmembrane polypeptide, wherein the